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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Yellowstone NATIONAL PARK

FILE NO. 143

(Extra Copy)

MONTHLY REPORT

May, 1930.

MAY 1930

IMPORTANT

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HORACE M. ALBRIGHT,
Director.

S. GOVERNMENT PRINTING OFFICE: 1929 6—7410

June 5, 1930.

The Director,
National Park Service,
Washington, D. C.

Dear Mr. Director:

Following is the report of the activities of Yellowstone National Park for the month of May 1930:

000 - General

Not since 1926 have the park roads been opened to travel before June 1st but with the continued warm weather and the rapid disappearance of the snow it was possible to open the west side to travel on May 18th and the north and west gateways began operations. On May 30th the east side of the park was opened and by that time all the main points of interest were accessible. The road between West Yellowstone and Gallatin Gateway was made passable on May 1st and while there were several bad places it relieved the demand from those desiring to get through the park from West Yellowstone to Livingston. While the first car negotiated the Continental Divide road on May 26th, no travel was permitted during the remainder of the month, and it is expected to keep this road closed to travel until about June 10th. The road over Dunraven Pass was still blocked by snow at the end of the month, and it is not contemplated to open the south entrance to travel before June 10th and the east before June 15th. The travel during the month was all that could have been hoped for and informal accommodations were available at all the main points of interest to take care of the early visitors.

All through the month there was a large number of unemployed men looking for work but it was not possible to organize crews until word was received that the Interior Department Appropriation Bill was passed. The news was received on May 16th that the Bill had been signed by the President on the 14th and immediately work was begun on organizing crews for the various projects.

100 - Administration

110 - Status of Work

On May 6th I returned to the park from Denver with my family and

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110 - States of Park

On May 6th I returned to the park from Denver with my family and

most of the remainder of the month was spent in the park. On the 13th, accompanied by Chief Ranger Baggley and Assistant to the Superintendent Joffe, I went to Livingston to aid in the Arbor Day exercises sponsored by the Livingston Woman's Club. A beautiful Engelmann spruce tree was brought from the park and planted in the yard of the public library in honor of former Director Stephen T. Mather.

On the 17th a trip was made to Bozeman, Montana, to attend the State Rotary Convention, and I had an opportunity to renew acquaintance with many friends of the park. I returned on the 18th, coming in via the Gallatin road.

Our clerical force was increased considerably during the month, and with the additional help it was possible to keep all work current. Clerk Mary Markham reported for duty on May 1st, Clerk John Fay reported on the 4th, Mrs. Helen Williams arrived on the 16th and Miss Wilma Rubenstein reported on the 30th. This completes our clerical force for the summer, with the exception of two statistical clerks and a publicity clerk, who will report about June 15th.

File Clerk Margaret Jamieson, who resigned effective April 30th, was placed on an emergency status for a couple of weeks but left on the 23rd for Moran, Wyoming, where she is to be employed by the Teton Lodge Company.

120 - Park Inspections By:

121 - Superintendent

On the 7th Assistant Superintendent Edwards and I started for an inspection of the Gallatin road but on account of our having to fight a severe snowstorm and the poor visibility we went as far as Madison Junction and then returned to headquarters. On the 14th, in company with Mr. Edwards and Mr. Moorman of the Camps Company, a trip was made to Canyon, Lake and Thumb to look over a number of Camps Company problems and to inspect these park roads. On the 16th I inspected the Mammoth area, in company with Assistant Landscape Architect McCarter, who arrived in the park that morning. A trip was made to the Lake on the 24th and over the old Gardiner road on the 25th. On the 29th I inspected the thermal area near Gibbon Meadows. Other trips were made by auto or by horseback.

123 - National Park Service Officers

Superintendent Sam T. Woodring, of Grand Teton National Park, entered the park at the west gate on May 3rd and proceeded through the park to Livingston. He returned the following day and spent a few hours in the office discussing some of his park problems and accounting matters. He left via the west gate May 4th.

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Assistant Landscape Architect Kenneth McCarter arrived via West Yellowstone on the 16th and is to be assigned to the Yellowstone for the entire summer. On the 23rd he left via the west gate for the Grand Teton Park and returned to the Yellowstone again on the 30th.

E. A. Davidson, Associate Landscape Engineer of the Park Service, arrived via the north gate on May 25th and proceeded immediately to Old Faithful to work on landscaping problems in that vicinity. He remained there until the 31st when he left via Gardiner for Glacier Park. He expects to return to the Yellowstone again in about a week or ten days.

125 - Other Governmental Officers

Mr. C. F. Capes, from the Denver Office of the Bureau of Public Roads, in charge of the Bureau's work in the park, arrived at Gardiner on the evening of the 9th and spent the night there. The following morning he visited the office for conference with the Superintendent and Assistant Superintendent. He proceeded to the east entrance road in the afternoon and reached Turbid Lake, leaving the park the next day via Gardiner. He expects to return early in June with his family and will make his headquarters at Mammoth.

U. S. Commissioner John W. Meldrum returned to the park on the 14th via Gardiner, having spent several months in California. Judge Meldrum has been in poor health for some time and his condition was not greatly improved at the time he returned to the park.

J. W. Gardner and Harry Heuver of the Bureau of Fisheries arrived in the park via Gardiner on the 12th with their crew and proceeded the following day to the Lake to get their operations there underway.

Berkeley Johnson, of the Water Resources Branch of the Geological Survey, Boise, Idaho, arrived in the park via the west gate on the 20th to look after the stream gauges and left via the same gateway on the 24th.

127 - Other Agencies

Mr. William Rush, assigned to special investigation work in connection with the park wild life, spent most of the month on an inspection of the Sun River elk herd near Great Falls, Montana. The trip was made at the request of the Great Falls Chapter of the Izaak Walton League and had the indorsement of the Montana State Game Department, the Forest Service and the headquarters office of the Izaak Walton League. On his return from Great Falls he attended the Montana Sportsmens Association meeting at Helena on the 23rd and 24th. He returned to the park on the 26th.

Mr. Herbert Maier, Architect in charge of museum work in the park, arrived with Mrs. Maier on May 4th and began work immediately on the new museum at Norris. He will spend the entire summer in the Yellowstone.

Assistant Landscape Architect Kenneth Dalhorter arrived via West Yellowstone on the 18th and is to be assigned to the Yellowstone for the entire season. On the 23rd he left via the west gate for the Grand Teton Park and returned to the Yellowstone again on the 30th.

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Mr. Charles B. Read and Mr. C. Jonson of the Palaeobotanical Research Branch of the Carnegie Institution of Washington, D.C., arrived in the park on May 30th and proceeded to Tower Falls where they expect to remain during the entire summer continuing the work of former years in connection with fossil remains and petrified trees in that vicinity.

140 - Labor Situation

There has been an overabundance of men seeking employment this year and there will be no difficulty whatever in filling all positions. More men seem to be seeking work this year than in former years. Some crews were organized before the end of the month but there are still a great many men, most of them in bad circumstances, seeking employment of any kind.

180 - Circulars, Bulletins, etc.

Circular No. 2 was issued during the month and one press memorandum was released, copies of both being attached hereto. The April Naturé Notes were mailed out early in the month and a copy accompanied the April monthly report. The May Notes were issued during the month and a copy is attached.

200 - Maintenance, Improvements and New Construction

210 - Maintenance of Roads

The usual crew for the East Forest heavy maintenance and Sylvan Pass snow removal was organized at Cody on May 1. In comparison with previous years, the general condition of the road was excellent through the Shoshone Forest and no major repairs were necessary. Special attention was given the graveling of all soft and slippery sections that were open to criticism last season. Snow depths above the East gate were lower than any time since the spring of 1926 and only five days were required to open Sylvan Pass.

The heavy grading outfit started work on May 20th, with two Stockland graders drawn by a 75 caterpiller used for scarifying. Grading behind the scarifier was done by three one-man motor patrols - a Wehr, Russell and Adams #11. Work completed to the end of the month included Gardiner to Mammoth, Mammoth to Norris Junction, Norris to Madison Junction, and from Madison to the hard surfacing on West Yellowstone road, a distance of forty-nine miles. A single motor patrol worked the Tower Falls road for eight miles and then scarified and graded the roads about Mammoth.

Other Maintenance:

Electrical and Telephone Department: Work of this department consisted mainly of general maintenance work at headquarters. Other work consisted of installing telephones and replacing rotted telephone poles and changing and replacing street lamp poles. Some wiring was done at Lake Fish Hatchery and at the messhouse and bunk house.

Mr. Charles S. Hand and Mr. C. Jensen of the Paleobotanical Research Branch of the Carnegie Institution of Washington, D.C., arrived in the park on May 30th and proceeded to Tower Falls where they expect to remain during the entire summer continuing the work of former years in connection with fossil remains and petrified trees in that vicinity.

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-4-

Shops: The month has been devoted to overhauling motorcycles and passenger carrying vehicles, working on the motor patrols, and trucks.

Sanitation Department: Work of this department consisted of the usual maintenance to the water system at Mammoth, cleaning the 2,000,000 gallon reservoir, completing the incinerator at the Canyon, building 8,000 feet of driveways, excavating 3,000 feet of trench for the new Norris water system and commencing work on the new comfort station at Norris.

220 - Improvements

The carpenter foreman and master painter devoted part of the month to the usual maintenance of buildings at headquarters, and work was started on the new comfort station at Norris.

230 - New Construction

Construction work was started on several road projects when funds from the Interior appropriation bill became available. These consisted of a road change on the Madison-Old Faithful road at the Fountain Paint Pots, finishing a short stretch of reconstruction four miles from West Yellowstone, and the finishing of the work in front of Mammoth Lodge started late in 1929, and starting on the new construction of the Mammoth Lodge-Jupiter Terrace Road.

Work was started on the Mammoth Lodge section on May 19th, with the Erie steam shovel, three to five Ford dump trucks, two Mack trucks and a Thirty caterpillar. Considerable hand labor was necessary in finishing in front of the Lodge as the new road is all on fill from three to five feet above the natural ground level. After the grading was finished a selected material from Capitol Hill was spread as surfacing. Surfacing was also spread on the old road above the reservoir to the one-mile post.

The reconstruction work on the Madison-West Yellowstone road was finished with a sixty caterpillar and grader. However, nearly a week's time was spent with one Ford dump truck and eight men hauling surfacing material to raise low spots in the grade. Four hundred and eight feet of guard rail was placed on posts already set in the rock wall. This project was completed at the end of the month.

The Paint Pots job was started as soon as funds were available and four men began setting up camp on May 17th. The Osgood gas shovel was in operation May 19th, and hauling with trucks commenced on the 20th of the month. The shovel has been operated two shifts since the 20th. Three F. W. D. trucks and a train of five dump wagons hauled by a sixty caterpillar were used as hauling equipment and also two Fords with dual wheels.

240 - Improvements of Approaches to the Park

A small improvement project was started at the Gardiner Entrance, consisting of the removal of the north wing wall at the arch and the regrading

Shops: The month has been devoted to overhauling automobiles and passenger carrying vehicles, working on the motor patrols, and trucks.

Conditioning Department: Work of this department consisted of the usual maintenance to the water system at Kennedy, cleaning the 2,000,000 gallon reservoir, completing the incinerator at the Canyon, building 8,000 feet of driveways, excavating 3,000 feet of trench for the new Norris water system and summarizing work on the new comfort station at Norris.

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A small improvement project was started at the Northeast Entrance, consisting of the removal of the north wing wall at the arch and the regrading

of the sharp curve from the main street in Gardiner into the arch entrance. This reconstruction affords complete visibility for all traffic entering the gate from any direction. This work was practically completed at the end of the month.

260 - Landscape Work

During the month road construction, both contract and force account, was actively pursued, the major projects being the East Entrance road and the Terrace-Mammoth Lodge section of the Norris Junction-Mammoth Hot Springs project, and the Paint Pots section between Madison Junction and Old Faithful. Work has been progressing satisfactorily.

Work was started on a new wing for the Canyon Hotel.

Work was resumed on the Norris museum, Hamilton gas station at Old Faithful, Hamilton's store at Fishing Bridge, housekeeping cabins, etc. The month saw the completion of Hamilton's new store at Old Faithful, which is now ready for the season's business. Much favorable comment has been given to this building as a standard of noteworthy construction, setting a precedent for better and permanent construction amongst the public utility operators.

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300 - Activities of Other Agencies in the Park

310 - Public Service Contractors

On the first day of May the Hotel Company sent out some teams and wagons to break open the road to the Canyon in order that work could be commenced on the new addition to the Canyon Hotel and crews were also sent to Old Faithful. Officials of all of the park companies, with the exception of Mr. J. E. Haynes, were in the park during the month and work was in progress to get everything in readiness by the opening of the park season. Mr. C. A. Hamilton provided accommodations at his Old Faithful store for the first visitors who were allowed to enter on May 17th, and when the west side of the park was made accessible on May 30th informal accommodations were available at Mammoth, Old Faithful, Lake and Canyon. Also, the general stores and gasoline stations were operating at these points. Park operators arrived during the month as follows: George Larkin, President of the Yellowstone Park Fuel Company, via the north gate on May 6th; W. M. Nichols, via the north gate on the 7th and left on the 9th; Mrs. Anna K. Pryor, at the north gate on the 8th; Mr. Nichols returned on the 20th and left again on the 22nd; Vernon Goodwin arrived on the 26th; H. B. Brown, Superintendent of Hotels, arrived on the 29th.

On May 22nd a conference was held in the Superintendent's office, at which were present Superintendent Toll, Mr. W. M. Nichols, Mr. C. A. Hamilton and Mr. George Whittaker, to discuss gas and oil rates for the coming summer. The following rates were approved and were to be put in effect immediately: GASOLINE: At Mammoth Hot Springs, 27½¢ per gallon; at other points in park, 28¢ per gallon; Ethyl gasoline 3¢ above regular gasoline. OIL: Germ processed motor oils - light, 35¢ quart; medium 35¢; medium heavy 35¢; heavy 35¢; special heavy 40¢; extra heavy 40¢. Conoco Motor Oil - light 30¢ quart; medium 30¢; medium heavy 30¢; heavy 30¢; special heavy 35¢; extra heavy 35¢.

311 - Character of Service Rendered to the Public

There were suitable accommodations available to take care of visitors as soon as they were permitted into the park and when the road to Canyon and Lake were opened the operators continued their park operations at these points.

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400 - Flora, Fauna and Natural Phenomena

410 - Ranger, Naturalist and Guide Service

The opening of the roads somewhat earlier than last year has given a better opportunity for activities of the Protection Department. All patrols for the month were made by motor car. Other activities of the Protection Department have been general spring cleanup work, repair and maintenance of trails, construction of new trails, insect control work and other pre-season activities.

The office work has consisted of all necessary work in connection with making preparations for the coming travel year. All forms have been prepared and supplies and materials have been sent to the ranger stations.

The forest insect mapping crew established camp on May 30 and have been working in the field since May 17. The crew is now complete and they will work in the West Yellowstone district and south this summer.

The opening of the north and west gates on May 17 resulted in a considerable increase in pre-season travel. Rangers have been busy at these two gates checking travel through the park. The roads to Canyon and Lake were open May 30, and travel was allowed in that part of the park.

420 - Museum Service

The members of the Yellowstone Educational Department have been occupied during the past month with the regular routine duties of the organization. In addition, they have spent considerable time in the preparation of exhibits for the various museums in cooperation with Mr. Russell. This includes the preparation of cases for the Norris museum, and historical and Indian exhibits for the Madison Junction and Mammoth buildings. Vol. 1 of the Yellowstone Information Manual, containing approximately 200 pages was completed, as well as the April and May issues of the Yellowstone Nature Notes.

Considerable work has been done preparing for the coming of the Ranger Naturalist staff during June. Mr. Dale Leslie reported for pre-season work on the 28th of the month. With the assistance made available through the Superintendent's office the new system for park photographs was begun, and 750 pictures were pasted in the albums during May.

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470 - Animals:

Wild life conditions as compared with this month last year are not quite as good. The scarcity of forage was noticeable. However, the disappearance of the snow at an early date allowed most of the elk, deer and antelope to drift to a high range where sufficient food was available. At this writing the elk have drifted as far as Clear Creek on the east side of the Lake and as far as Heart Lake from the west side.

Elk: In the early part of the spring it appeared as though we would lose a great number of the weaker elk which had suffered from the hard winter but fine spring weather in early May has brought a great many of these animals through in good condition. A few elk calves have been reported, the first on May 19th. As compared with last year the calves are somewhat later. The ticks were much worse this year than last year although most of the elk are shed at the present writing and are in fairly good condition. The early part of the month marked the close of the elk shedding season and most of the bulls are now in the velvet.

It is proposed to continue the game observations in the Upper Yellowstone and we are sending a man into the Thorofare District on June 4 who will remain there during the summer and probably until December 1st. It is desirable that we keep a continuous record of the game activities in this region, especially the drift and a record of the hunting season.

In connection with the elk study work, we have established five range study plots throughout the northern part of the park. These plots are small enclosures 16-1/2 feet square and fence game type. Small areas inside of these enclosures are plotted and measurements taken of the grass and a like area outside so that a yearly comparison may be had which will show us a great many things that we do not now know about our elk range.

Sheep:: In the early part of the month a few sheep were seen on Mt. Everts and at Junction Butte but the early season has allowed them to drift to their summer range much earlier than previous years. It is interesting to know that this year only one sheep was lost from our park band and that was due to an accident and not to disease. All sheep have come through the winter in good condition, and the last observation showed them to be in excellent condition.

Antelope: Antelope may be seen from the Game Preservation Ranch to the drift fence above the Buffalo Ranch. They started to drift to their summer range on April 9 and by the middle of the month the large band which winters near Gardiner had drifted to Blacktail and others to the Buffalo Ranch and beyond.

Deer: The bands of deer in Yellowstone suffered considerable loss last month from the deer botfly and other causes but the middle of the month found the deer to be in much better condition than the previous month. Con-

Wild life conditions as compared with this month last year are not quite as good. The scarcity of forage was noticeable. However, the disappearance of the sage at an early date allowed most of the elk, deer and antelope to drift to a high range where sufficient food was available. At this writing the elk have drifted as far as Clear Creek on the west side of the lake and as far as Bear Lake from the east side.

Elk: In the early part of the spring it appeared as though we would lose a great number of the weaker elk which had suffered from the hard winter but fine spring weather in early May has brought a great many of these animals through in good condition. A few elk calves have been reported, the first on May 19th. As compared with last year the calves are somewhat later. The ticks were much worse this year than last year although most of the elk are shed at the present writing and are in fairly good condition. The early part of the month marked the close of the elk shedding season and most of the bulls are now in the velvet.

It is proposed to continue the game observations in the Upper Yellowstone and we are sending a man into the Shoreline District on date 4 who will remain there during the summer and probably until December 1st. It is desirable that we keep a continuous record of the game activities in this region, especially the drift and a record of the hunting season.

In connection with the elk study work, we have established five range study plots throughout the northern part of the park. These plots are small enclosures 16-1/2 feet square and fence game type. Small areas inside of these enclosures are plotted and measurements taken of the grass and a line area outside so that a yearly comparison may be had which will show us a great many things that we do not now know about our elk range.

Sheep: In the early part of the month a few sheep were seen on Mt. Sparta and at Junction Butte but the early season has allowed them to drift to their summer range much earlier than previous years. It is interesting to know that this year only one sheep was lost from our park band and that was due to an accident and not to disease. All sheep have come through the winter in good condition, and the last observation showed them to be in excellent condition.

Antelope: Antelope may be seen from the Lake Preservation Bench to the drift fence above the Buffalo Ranch. They started to drift to their summer range on April 5 and by the middle of the month the large band which winters near Gardiner had drifted to Blacktail and others to the Buffalo Ranch and beyond.

Deer: The bands of deer in Yellowstone suffered considerable loss last month from the deer botfly and other causes but the middle of the month found the deer to be in much better condition than the previous month. Con-

siderable study has been given to the deer botfly and methods of controlling it. It has been found that the use of salt troughs with tar on them gives very good results in controlling the deer botfly. With that end in view we have established 10 salt grounds throughout the northern part of the park where the deer are more numerous. Recent observations show these salt grounds to have been used and we are hopeful that later studies and application of tar to these troughs will prove satisfactory in controlling the deer botfly.

Moose: In the early part of May moose again returned to Willow Park and 7 were counted there on a recent trip. Moose in other parts of the park are numerous and no losses have been reported.

Bear: Bear are out of hibernation and may be seen at all stations throughout the park. The recent count of grizzlies in Canyon District showed 28 bear to be in that district. Numerous reports show that the bear cubs are less numerous than last year. To date bears have not broken into buildings as they did last year and only one or two instances have been reported where any damage has been done by bears.

Buffalo: At this writing over 100 buffalo calves have been reported by Chief Buffalo Keeper Lacombe. The cow herd may be seen now in Lower Slough Creek, Hellroaring and the Lamar Flats while the bulls and younger animals have drifted toward their summer range. Both weather and forage conditions are very favorable for the buffalo herd at this writing. Rangers on patrol have reported seeing a few of the wild herd in Pelican Meadows and near Turbid Lake, and no losses have been reported in either herd.

Predatory Animals: No predatory animals have been killed during the month and no reports have come of destruction by predatory animals.

Water Fowl: The usual variety of ducks, geese, swans, pelicans, herons and other water birds may be seen on all of the park waters. The rangers are still taking monthly counts in cooperation with the Bureau of Biological Survey. Rangers on patrol report a great many young ducks and geese in somewhat larger numbers than last year and all indications are that the water fowls will produce a great many young birds this year. Shortly the Bureau of Biological Survey plans to change their method of counting water birds. They have asked that we make a quarterly report in lieu of the monthly counts, which seems a more desirable method of water fowl observation.

Fish: The fishing season opened June 1st and a great many people have driven to the park merely to fish. The Bureau of Fisheries men came to the park early in the month and egg collecting was started on May 13. At this writing they report having taken over 1,000,000 eggs. This year they will use traps in the lake outlet which they hope will give them a substantial increase in their egg take on Lake Yellowstone. Small streams entering the lake from the south have been so high that it was difficult to trap them.

[illegible] study has been given to the deer botfly and methods of controlling it. It has been found that the use of salt troughs with tar on them gives very good results in controlling the deer botfly. With that end in view we have established 10 salt grounds throughout the northern part of the park where the deer are more numerous. Recent observations show these salt grounds to have been used and we are hopeful that later studies and application of tar to these troughs will prove satisfactory in controlling the deer botfly.

Moose: In the early part of May moose again returned to Willow Park and 7 were counted there on a recent trip. Moose in other parts of the park are numerous and no losses have been reported.

Bear: Bear are out of hibernation and may be seen at all stations throughout the park. The recent count of grizzlies in Dutton District showed 20 bear to be in that district. Numerous reports show that the bear cubs are less numerous than last year. The Bear bears have not broken into buildings as they did last year and only one or two instances have been reported where any damage has been done by bears.

Buffalo: At this writing over 100 buffalo calves have been reported by Chief Buffalo Keeper Lacombe. The cow herd may be seen now in Lower Sleepy Creek, Hellroaring and the Lower Flats while the bulls and younger animals have drifted toward their summer range. Both weather and forage conditions are very favorable for the buffalo herd at this writing. Rangers on patrol have reported seeing a few of the wild herd in Pelican Mountains and near Turbid Lake, and no losses have been reported in either herd.

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Tourists checking out of the park on June 1st report that fishing was very good in all the park waters.

Ranch Operations: Ranch operations are very much ahead of this time last year. During the month the ranch foreman completed reseeding operations on the Gardiner Ranch and repaired all flumes and ditches at the Yancey and Slough Creek Ranches, and at this writing the Gardiner Ranch has been irrigated once and a part of it twice.

Operations at the Buffalo Ranch consisted of the usual spring cleanup and repair to buildings, fences and equipment and the irrigation of all hay meadows. It is interesting to note that the early season is responsible for a shortage of water on the buffalo ranch. Two springs which formerly supplied water for irrigating part of the ranch are entirely dry at this writing.

480 - Natural Phenomena

Mammoth Formations: The total amount of water flowing from the terraces shows a slight increase. New Angel Terrace, Cleopatra Terrace, Blue Springs and Narrow Gauge Terrace all show increased activity. Mound, Jupiter, New Highland, White Elephant Back and Minerva Terraces have not changed their status during the month.

While two bats were seen in Devils Kitchen a month ago, none were to be found at this date. There were no dead birds to be found in Stygian Caves. Wild flax, larkspur, "Formation Daisy" and sedum were found in blossom.

Upper and Lower Geyser Basins: A series of temperatures taken at ten day intervals throughout the fall, winter and spring months, apparently show no more variation than similar series recorded during the summer months. This variation is slight and does not seem to be connected with any climatic changes that occur.

The Imperial Geyser remains in a quiet, constantly overflowing state. Minor eruptions caused by escaping gases and steam are all that remain of the once violent activity. The overflow and temperature of the water shows very little change. The turbid appearance of the pool, reported last month, has changed to the clear blue of previous months.

The Giant Geyser has been in eruption three times during May, the last eruption occurring on May 29th at 7:40 p.m., playing for a period of one hour and five minutes.

Old Faithful Geyser is playing according to a long established schedule, both as to the height of eruption and to the period of time elapsing between eruptions.

No changes in any of major geysers have been noted, nor have any variations in other hot water phenomena been observed or reported.

Tourists checking out of the park on June 1st report that fishing was very good in all the park waters.

Ranch Operations: Ranch operations are very much ahead of this time last year. During the month the ranch forces completed reseeding operations on the Gardiner Ranch and repaired all fences and fitches at the Yellow and Slough Creek Ranches, and at this writing the Gardiner Ranch has been irrigated once and a part of it twice.

Operations at the Buffalo Ranch consisted of the usual spring cleanup and repair to buildings, fences and equipment and the irrigation of all hay meadows. It is interesting to note that the early season is responsible for a shortage of water on the Buffalo Ranch. The springs which formerly supplied water for irrigating part of the ranch are entirely dry at this writing.

(b) - Natural Phenomena

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The Giant Geyser has been in eruption three times during May, the last eruption occurring on May 25th at 7:45 p.m., playing for a period of one hour and five minutes.

Old Faithful Geyser is playing according to a long established schedule, both as to the height of eruption and to the period of time elapsing between eruptions.

No changes in any of major geysers have been noted, nor have any variations in other hot water phenomena been observed or reported.

490 - Miscellaneous:

Ranger Conference: The annual ranger conference was held May 9 and 10 at Park headquarters. Superintendent Toll, Assistant Superintendent Edwards and Assistant to the Superintendent Joffe with all rangers and interested Department heads attended the two day session. The schedule of events is herewith given:

Friday, May 9

8:30-9 a.m. - "Get Acquainted" half hour.
9-9:30 a.m. - Resume of the subjects to be discussed during the Conference.
9:30-noon - Informal discussion of park travel, the proposed new method of handling travel statistics, and other pertinent subjects.

L U N C H

1:30-2 p.m. - Discussion of issues handled through the Government storehouse.
2-3 p.m. - Discussion of snowshoe rations, care and use of the cabins, equipment, etc.
3-4 p.m. - Discussion on reports including ranger reports, special incidents, accidents, wild life, etc.
4-5:30 p.m. - Discussion on game, game counts, fishing, fishing regulations, etc.
7:30 p.m. - Motion pictures of forestry work, wild life, and other outdoor subjects.

Saturday, May 10

8:30-9:30 p.m. - Inspection of fire equipment at Mammoth. Discussion of forest fires, etc.
9:30-11 a.m. - Field trip to woods near Mammoth for instructions in timber operations.
11 to noon - Return to the Post Exchange to discuss forestry work.

L U N C H

1:30-2:30 p.m. - Discussion of law enforcement.
2:30-5:30 p.m. - All unfinished business taken up and one hour devoted to a Question Box.
5:30 p.m. - Final Adjournment.
6:30 p.m.-8:30 - Ranger Banquet in Govt. Mess Hall
8:45 to 12 p.m.- Ranger Dance at the Canteen

Sunday, May 11

9:15 a.m. - Ranger baseball game.
1:30 p.m. - Rangers returned to their duty stations.

490 - Miscellaneous:

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9-9:30 a.m. - Reason of the subjects to be discussed during the Conference.
9:30-noon - Informal discussion of park travel, the proposed new method of handling travel statistics, and other pertinent subjects.

LUNCH

1:30-2 p.m. - Discussion of issues handled through the Government Storehouse.
2-3 p.m. - Discussion of accounts matters, care and use of the cabins, equipment, etc.
3-4 p.m. - Discussion on reports including ranger reports, special incidents, accidents, wild life, etc.
4-5:30 p.m. - Discussion on game, game counts, fishing, fishing regulations, etc.
7:30 p.m. - Motion pictures of forestry work, wild life, and other outdoor subjects.

Saturday, May 10

8:30-9:30 p.m. - Inspection of fire equipment at Kenneth. Discussion of forest fires, etc.
9:30-11 a.m. - Field trip to would hear [illegible] for instructions in timber operations.
11 to noon - Return to the Post Exchange to [illegible] forestry work.

LUNCH

1:30-2:30 p.m. - Discussion of law enforcement.
2:30-5:30 p.m. - All unfinished business taken up and one hour devoted to a question box.
5:30 p.m. - Final adjournment.
6:30 p.m.-8:30 - Ranger Banquet in Govt. Dues Hall
8:45 to 12 p.m.- Ranger Dance at the Canteen

Sunday, May 11

9:15 a.m. - Ranger baseball game.
1:30 p.m. - Rangers returned to their duty stations.

Only two days were given to the Conference this year as the season was considerably ahead of last year, and it was necessary to get the rangers on summer stations as quickly as possible. A trip to the field for instructions in forestry work on May 10 proved very instructive and the men returned feeling that they had acquired some knowledge of proper forestry methods. The ranger banquet was held at the Government mess hall this year instead of at the Shaw Hotel as last year. Superintendent Toll acted as toastmaster. After the banquet all those in attendance adjourned to the canteen and spent an enjoyable evening dancing. The ball game on Sunday morning proved fully as exciting as last year's ball game and the final score was reversed, standing 8 to 13 in favor of Capt. Bauman's team, whereas Captain Ogston's team won the game a year ago. All those in attendance at the Conference expressed a desire that it might be an annual affair as the benefit derived fully justified the time and expense given to the Conference.

Izaak Walton League: At the Conference above mentioned I brought up the subject of the Izaak Walton League and its activities and expressed the opinion that all present members of the Yellowstone chapter should retain their membership.

Meeting of Montana Sportsmen's Association: Chief Ranger Baggley attended the annual meeting of the Montana Sportsmen's Association at Helena on May 23rd and 24th. Montana sportsmen were well represented and matters of interest to them were discussed. The general tone of the meeting was very fine and it is apparent that Montana sportsmen are kindly disposed toward the National Park Service and its work. Resolutions were passed which if successful in the State legislature will raise the present license fee 50%. After the meeting adjourned State Game Warden Robert Hill drove to Georgetown Lake with Chief Ranger Baggley and Assistant Superintendent Edwards where they inspected the Georgetown Lake egg-taking station and later inspected the state hatchery at Anaconda. The State Game & Fish Department have given Yellowstone and its officials very good cooperation during the past year.

500 - Use of Park Facilities by the Public

510 - Increase or Decrease of Travel

All pre-season park travel to May 17 was through the north gate to Mammoth and return. Due to the splendid condition of the West Yellowstone and Gardiner roads the west and north gates were opened on the morning of May 17. The morning of May 30 the Lake and Canyon roads were opened, and on June 1st the fishing season was opened, consequently pre-season travel this month will show a considerable increase over pre-season travel last year at this date. The travel for the month is as follows:

1010 cars
2800 visitors

Pre-season travel to date is 7576 people traveling in 2807 cars. The pre-season travel for 1929 was 1560 cars and 4437 people. For 1928 it was 1109 cars and 3100 people.

only two days were given to the Conference this year as the season was already closed at last year, and it was necessary to put the congress on a more stationary or yearly as possible. A trip to the field for the practical in forestry were so long it proved very instructive and the men returned feeling that they had acquired some knowledge of proper forestry methods. The Congress banquet was held at the Commercial Club hall this year instead of at the Club hotel as last year. Superintendent Gill acted as toastmaster. After the banquet all those in attendance adjourned to the concrete and spent an enjoyable evening dancing. The ball game on Monday morning proved fully as exciting as last year's ball game and the final score was reversed, standing 6 to 15 in favor of Lumber's team, whereas Cyclone Gordon's team won the game a year ago. All those in attendance at the Conference expressed a hearty that it might be an annual affair as the benefit derived fully justified the time and expense given to the Conference.

Lions Welfare League: At the Conference also mentioned I brought up the subject of the Lions Welfare League and its activities and expressed the opinion that all present members of the Inglewood chapter should retain their membership.

Meeting of Sawyers Superintendent's Association: Chief Ranger Mulvey attended the annual meeting of the Sawyers Superintendent's Association at Talkin on May 23rd and 24th. Business operations were well represented and matters of interest to them were discussed. The general tone of the meeting was very fine and it is important that lumber superintendents are kindly disposed towards the Bureau of Forestry and its work. Resolutions were passed which if concurred in by the Forestry Legislature will relieve the present license fee 25%. After the meeting adjourned Mr. Gordon McLeod Lumber Co. Ltd. drove to Cowichan Lake with Chief Ranger Mulvey and inspected Superintendent Jeffrey's camp. They inspected the Cowichan Lake log-hoisting station and later toppedred the area logged at Accoats. The Ellis Lake & Mill Department have given information and its officials very good cooperation during the past year.

500 - Use of Fire Fighting by the Public

510 - Increase or Decrease of Travel

All pre-season pass travel to May 17 was through the north gate to Lenwith and return. Due to the adverse conditions at the east Inglewood and Cardiner roads the west and south gates were opened on the morning of May 17. The morning of May 20 the east Cardiner roads were opened, and on June 1st the fishing season was opened, consequently pre-season travel this month will show a considerable increase over pre-season travel last year at this date. The travel for the month is as follows:

1010 cars
3800 visitors

Pre-season travel to date is 1176 people travelling in 307 cars. The pre-season travel for 1929 was 1560 cars and 4457 people. For 1928 it was 1109 cars and 3100 people.

520 - General Weather Conditions

521 - In the park

The following report is submitted by the Weather Bureau showing conditions at Mammoth Hot Springs for the month of May:

"The average temperature for the month of May was almost a degree below normal. Beginning with August, 1929, there has been a regular monthly alternation of average temperatures above and below normal. August, October, December, February, and April were above normal; and September, November, January, March and May below normal. Other than the continuance of this unusually persistent regular alternation there is little of special interest in the records of the month. For the current year to date, the slight excess over normal recorded at the end of April has been replaced at the close of May by a very small deficiency. There was no day during the month when the maximum temperature was as low as the freezing point. The extreme temperatures for the month were: Maximum 78 on the 28th; minimum, 25, on the 23rd. Higher maxima and lower minima have frequently been recorded in May.

"Precipitation amounted to 1.04 inches, - the same figure as for May of last year. This is nearly an inch and a quarter below normal. The snows of the month were light, mostly melting as they fell. The total depth of unmelted snowfall was but 0.2 inch.

"The average wind velocity was 7.6 miles per hour, a substantial rise over the April average velocity, but in no way remarkable for May. The prevailing direction was Southwest, and the maximum velocity for the month, 34 miles per hour on the 20th. Solar halos, or arcs of solar halos, were observed on eight dates, - an unusual number; and a lunar halo was noted on one date. Heavy frosts were frequent. There were 4 clear days; 11, partly cloudy; and 16 cloudy days, with a percentage of possible sunshine of 65."

540 - Visitors

Mr. Hugh Rankin, of Ashton, Idaho, was among the first 1930 entries and came in at the west gate on May 7 to discuss road matters in the southwest section of the park with the superintendent. He left the following day via the same gateway.

Mr. W. Dixon Ellis, of Briggs & Ellis, Big Timber, Montana, was given permission to go through the park from West Yellowstone to Gardiner on May 12. He was returning from California and paid a visit to the office. Mr. Ellis is an "old-timer" in this country and visited the park in 1881 when Colonel Norris was in charge.

R. H. Compton, associated with the Botanical Gardens at Capetown, South Africa, accompanied by Mrs. Compton, entered the park at the north gate

530 - General Weather Conditions

531 - In the park

The following report is submitted by the Weather Bureau showing conditions at Bonneville Hot Springs for the month of May:

"The average temperature for the month of May was almost a degree below normal. Beginning with August, 1925, there has been a regular monthly alternation of average temperatures above and below normal. August, October, December, February, and April were above normal; and September, November, January, March and May below normal. Other than the continuance of this unusually persistent regular alternation there is little of special interest in the records of the month. For the current year to date, the slight excess over normal exceeded at the end of April has been replaced at the close of May by a very small deficiency. There was no day during the month when the maximum temperature was as low as the freezing point. The extreme temperatures for the month were: Maximum 78 on the 28th; minimum, 25, on the 23rd. Higher maxima and lower minima have frequently been recorded in May.

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540 - Visitors

Mr. Hugh Hawkin, of Ashton, Idaho, was among the first 1930 entries and came in at the west gate on May 7 to discuss road matters in the southwest section of the park with the superintendent. He left the following day via the same gateway.

Mr. T. Dixon Ellis, of Ellis & Ellis, Big Timber, Montana, was given permission to go through the park from West Yellowstone to Gardiner on May 12. He was returning from California and paid a visit to the office. Mr. Ellis is an "old-timer" in this country and visited the park in 1901 when Colonel Harris was in charge.

S. E. Compton, associated with the Botanical Gardens at Capetown, South Africa, accompanied by Mrs. Compton, arrived the park at the north gate

on May 17 and spent four days viewing its wonders. The Comptons had visited several national parks prior to their Yellowstone trip and were particularly interested in the flora, fauna and natural features of the country.

Harry L. Finch, Park Commissioner of Salt Lake City, Utah, entered the park at the west gate on May 28 and proceeded direct to Canyon. He left via the west gate on the same day.

900 - Miscellaneous:

Post Office: Postmaster Lindsley was away on annual leave May 18 to June 1, inclusive, leaving the office in charge of Assistant Postmaster Marsh.

Church Services: English Lutheran services were held in the Lodge Room by Rev. Webster H. Clement, on Tuesday evening, May 27. Episcopal services were held in the chapel on Sunday evening, May 25, by Rt. Rev. H. H. Fox, Bishop of Montana.

Hospital and Medical Service: Dr. Ahlers, the resident physician, reports 137 office calls and 35 visits during the month.

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Beginning May 15 the daily (except Sunday) train service from Livingston to Gardiner, was inaugurated. This service will continue until June 15 at which time the regular summer service will be put in force.

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A beautiful bronze tablet, the gift of Mr. A. L. Rule, of Mason City, Iowa, to be placed on the Mammoth Chapel, was received on May 21 and will be placed, with appropriate ceremonies, at a later date. Mr. Rule is intensely interested in the national parks and has visited a great many of them. Each summer for the past several years he and his family have spent considerable time in the Yellowstone and he has become one of the park's best boosters.

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Very truly yours,

Roger W. Toll

Roger W. Toll
Superintendent.

/ABG

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Harry L. Finch, Park Commissioner of Salt Lake City, Utah, entered the park at the west gate on May 20 and proceeded direct to Canyon. He left via the west gate on the same day.

900 - Miscellaneous

Post Office: Postmaster Lindsley was away on annual leave May 16 to June 1, inclusive, leaving the office in charge of Assistant Postmaster Marsh.

Church Services: English Lutheran services were held in the Lodge Room by Rev. Webster H. Clement, on Sunday evening, May 27. Episcopal services were held in the chapel on Sunday evening, May 25, by Rt. Rev. E. R. Fox, Bishop of Montana.

Hospital and Medical Service: Dr. Salers, the resident physician, reports 137 office calls and 35 visits during the month.

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Very truly yours,

Roger W. Bell
Superintendent.

/LM

10-157
July, 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

YELLOWSTONE National Park for the month of MAY 1930.

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
RIVATE TRANSPORTATION:						
ars first entry, ...	997	2546	319	1521	1025	67
ars reentry, ...	8	132	---	36	96	267
otorcycles, ...	5	5	---	3	2	67
Total motor vehicles, ...	1010	2683	319	1560	1123	72
ersons entering via motor ehicles, ...	2769	7545	967	4437	3108	69
ersons entering via other rivate transportation, ...	31	31				
Total persons entering via private transportation, . . .	2800	7576	967	4437	3108	70
THER TRANSPORTATION:						
ersons entering via stages, .						
ersons entering via trains, .						
ersons entering otherwise, . .						
Total other transportation, .						
RAND TOTAL ALL VISITORS, . . .	2800	7576	967	4437	3108	70

	This Year	Last Year	Increase	
			Number	Percent
utomobiles in public camps during month, ...				
ampers in public camps during month, ...				

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

-157
, 1929)

TRAVEL REPORT

National Park for the month of

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
TE TRANSPORTATION:						
first entry,	997	2546	319	1521	1025	67
reentry,	8	132	---	36	96	267
cycles,	5	5	---	3	2	67
al motor vehicles,	1010	2683	319	1560	1123	72
ns entering via motor les,	2769	7545	967	4437	3108	69
ns entering via other te transportation,	31	31				
al persons entering via vate transportation,	2800	7576	967	4437	3108	70
TRANSPORTATION:						
ns entering via stages,						
ns entering via trains,						
ns entering otherwise,						
al other transportation,						
TOTAL ALL VISITORS,	2800	7576	967	4437	3108	70

	This Year	Last Year	Increase Number	Increase Percent
obiles in public camps during month,				
ers in public camps during month,				

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

YELLOWSTONE National Park for the month of MAY 1930.

	This Month	This Month Last Year
Number of employees beginning of month,	74	76
Number of additions, ...	8	5
Total, ...	82	81
Number of separations, ...	2	1
Number of employees close of month, . .	80	80
Number of promotions during month	0	0
Aggregate amount of annual leave taken,	54	118-1/2
Aggregate amount of sick leave taken,	9	12
Aggregate amount of leave without pay,	10	0

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

[illegible] National Park for the month of [illegible] 1940.

	This Month	This Month Last Year
[illegible]ber of employees beginning of month	74	76
[illegible]ber of additions, ...	6	3
Total, ...	80	81
[illegible]umber of separations, ...	2	1
[illegible]umber of employees close of month, . .	78	80
[illegible]umber of promotions during month	0	0
[illegible]ggregate amount of annual leave taken,	94	[illegible]
[illegible]ggregate amount of sick leave taken.	3	12
[illegible]ggregate amount of leave without pay.	10	0

10-160

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

YELLOWSTONE National Park for the Month of MAY 1930.

	This Year	Last Year
Park revenue on hand beginning of month,	$293,168.77	271,189.05
Received,	835.30	107.78
Total,	294,004.07	271,296.83
Remitted,	294,004.07	271,296.83
On hand close of month,	000	000

Park revenues received this year to date,	$294,004.07
Park revenues received last year to date,	$271,296.83
Increase,	12,707.24
Per cent of increase,	.04

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

[illegible] National Park for the Month of MAY 1930.

	This Year	Last Year
k revenue on hand beginning of month	$295,168.77	271,189.05
eived	835.50	107.78
otal	294,004.07	271,296.83
itted	294,004.07	271,296.83
hand close of month	000	000

k revenues received this year to date	$294,004.07
k revenues received last year to date	$271,296.83
Increase	12,707.24
Per cent of increase	.04

)-162

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

YELLOWSTONE National Park for the Month of MAY 1930.

	This Month	This Month Last Year	Increase	Percent Increase
OCAL BUSINESS				
iles of circuit maintained	528	496	30	.06
o. of telephones connected	163	156	7	.044
c. of measured service calls				
o. of other local calls				
otal No. of local calls	4328	6198	-1870	-30
eak load in calls per day	213	307	-94	-31
eceipts from measured service calls				
eceipts from coin boxes				
eceipts from telephone rental				
TOTAL RECEIPTS				
ONG DISTANCE BUSINESS				
o. Outbound calls	116	138	-22	-16
o. Inbound calls	92	160	-68	-40
TOTAL LONG DISTANCE CALLS				
eak load in calls per day				
eceipts from Long Distance business				
ELEGRAPH BUSINESS				
essages via Western Union				
essages via				
TOTAL MESSAGES				
eceipts from telegraph business				
.. of money transfer messages				
.. of money transfer receipts				
OTAL RECEIPTS TELEPHONE & TELEGRAPH DEPT-				

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

TELLOWSTONE National Park for the Month of MAY 1950.

	This Month	This Month Last Year	Increase	Percent Increase
BUSINESS				
of circuit maintained	528	496	30	.06
of telephones connected	163	156	7	.044
of measured service calls				
of other local calls	4528	6198	[illegible]	[illegible]
No. of local calls	213	307	[illegible]	[illegible]
load in calls per day				
pts from measured service calls				
pts from coin boxes				
pts from telephone rental				
TOTAL RECEIPTS				
DISTANCE BUSINESS				
ntbound calls	116	138	[illegible]	[illegible]
bound calls	92	160	[illegible]	[illegible]
TOTAL LONG DISTANCE CALLS				
load in calls per day				
pts from Long Distance Business				
GRAPH BUSINESS				
ages via Western Union				
ages via				
TOTAL MESSAGES				
pts from telegraph business				
of money transfer messages				
of money transfer receipts				
RECEIPTS TELEPHONE & TELEGRAPH DEPT-				

0-163

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

YELLOWSTONE National Park for the Month of MAY 1930.

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
urrent generated, ...	65330.0	719460.0	46560.0	715860.0	3600	.5
old to park operators, . . .	3976.5	70373.4	3339.8	98920.4	-28547	-.2
old to others, ...						
urnished to other Governmental agencies, ...						
sed by National Park Service, lost in transit, etc., . . .	61453.5	649086.6	43220.2	616939.6	32147	.5
Total current generated, . .	65330.0	719460.0	46560.0	715860.0	3600	.5

mount receivable from the sale of electricity, ... $ 198.82

Indicated by K. W. H.

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

ELECTRICITY GENERATED, SOLD, USED, ETC.

[illegible] National Park for the Month of [illegible]

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
[illegible]ent generated, . . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] to park operators, . . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] to others, ...						
[illegible]ned to other Governmental [illegible]gencies, ...						
[illegible] by National Park Service, [illegible]t in transit, etc., . . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] generated	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] receivable from the sale of electricity, ... $ [illegible]

[illegible] cated by K. W. H.

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYOMING

May 31, 1930.

MEMORANDUM FOR ALL PARK RANGERS

The ruling with regard to use of private cars by temporary employees is to be in effect again this year and no temporary employee of the government or of the park operators are to use their personal cars during the summer.

No exception will be made to this rule without authority from this office.

Also the government will not provide storage space for the cars of temporary employees, any temporary employees hired who have their own cars will be required to find storage space outside of the park. The transportation company at Gardiner will be able to take care of the cars of the temporary employees for storage during the summer at a reasonable cost ($5.00 per month).

You should immediately check up on all private cars in your district and those which will have to be retired from use should be tied up or removed from the park at once. It would be desirable to have them taken out of the park.

The ruling governing the possesion of a dog in the park is still in effect and no deviation from this rule is allowable without authority of this office. However, at certain government road camps and incinerators it is necessary to keep a dog for protection from bears but in such cases authority will be granted from this office for keeping a dog in camp.

The above rule also includes the possession of cats which is strictly prohibited by anyone except tourists who are merely traveling through the park.

This memorandum is effective June 1 and all rangers will be charged with its enforcement.

George F. Baggley
Chief Ranger

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYOMING

May 2, 1950.

MEMORANDUM FOR ALL PARK EMPLOYEES

The ruling with regard to use of private cars by temporary employees is to be in effect again this year and no temporary employee of the government or of the park operators are to use their personal cars during the summer.

No exception will be made to this rule without authority from this office.

Also the government will not provide storage space for the cars of temporary employees, any temporary employees hired who have their own cars will be required to find storage space outside of the park. The concessioner company at Gardiner will be able to take care of the cars of the temporary employees for storage during the summer at a reasonable cost ($6.00 per month).

You should immediately check up on all private cars in your district and those which will have to be retained from use should be tied up or removed from the park at once. It would be desirable to have them out of the park.

The ruling governing the possession of a dog in the park is still in effect and no deviation from this rule is allowable without authority of this office. However, at certain government road camps and installations it is necessary to keep a dog for protection from bears but in such cases authority will be granted from this office for keeping a dog in camp.

The above rule also includes the possession of cats which is strictly prohibited by anyone except tourists who are merely travelling through the park.

This memorandum is effective June 1 and all requests will be observed with the enforcement.

George J. Beggley
Chief Ranger

May 29, 1930.

MEMORANDUM FOR ALL PARK RANGERS:

In order to clarify and set forth the best methods to uniformly handle park travel of all classes, the following memorandum is issued as a guide with this end in view.

The method of handling automobile travel has been changed considerably from last year.

GENERAL TRAVEL

This year the duplicate permits are to be sent daily to the Chief Ranger's Office. On each duplicate it will be necessary to stamp the date of issue. Statistical clerks will file them by name and compile all statistics and use the file for reference in looking up cars and people. The name of the permittee shall be written in ink in the upper left hand corner of each duplicate. It is very important that the names be written clearly, the last name appearing first.

In lieu of the former system of telephoning each permit number and other individual information into the office, the following system will be used:

Only total number of cars, passengers, guns, dogs and fish are to be telephoned to the office each morning.

RE-ENTRY TRAVEL

Re-entry cars will be handled in a similar manner; that is all permit numbers should be taken, make of car, number of passengers, and gate at which issued. This data is to be kept on file at the checking stations and only the total number of re-entry cars and passengers will be telephoned in each morning.

All cars which are to be counted as re-entries shall be absent from the park for a period of three days or more. Thus week-end travel would be counted as re-entry travel and cars which re-enter with a break of less than three days should not be included in re-entry travel but should be passed through the gate. Residents of Gardiner, Montana, and West Yellowstone, Montana, should be counted only once and not considered as re-entry travel on subsequent trips.

EXIT TRAVEL

Exit cars are to be checked out in the same manner as last year. The permit numbers shall be taken and kept on file at the checking station and only totals from each gate are to be telpphoned in. However, it is necessary that a personal contact be made with every exit car. All guns should be inspected, and

May 29, 1930.

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Exit cars are to be checked out in the same manner as last year. The permit numbers shall be taken and kept on file at the checking station and only totals from each gate are to be telephoned in. However, it is necessary that a personal contact be made with every exit car. All guns should be inspected, and

inquiries should be made for the total number of fish caught in the park and the date of exit stamped on the reverse side of the permit.

MISCELLANEOUS TRAVEL

Miscellaneous travel will consist of hikers, passengers on bicycles, on horseback and horse-drawn vehicles. Also Cooke City stage travel should be included in miscellaneous travel.

MOTORCYCLE TRAVEL

In handling motorcycle travel, dogs, guns and fish will be included with those in private automobiles and motorcycles. First entry, re-entry, and exit will be handled the same as automobile travel and the duplicate permits included with automobile permits and sent to the office daily.

COMPLIMENTARY PERMITS

Duplicates of complimentary permits are to be included with paid automobile permits and sent to the office. The auditor's coupon for complimentary permits should be included with the remittance for automobile permits.

Quoting circular No. 8 from the office of the superintendent governing the issue of complimentary permits:

"All United States Senators, Congressmen, and Governors of States when entering the park in conveyances requiring the issuance of a permit will, upon being identified, be issued a complimentary permit without inquiry as to the purpose of their visit.

Except as above noted complimentary permits will be issued only upon request and upon the declaration that the applicant is traveling in an official capacity on official business.

Full data as to name, address, official position, make of car, state, license number, and number of passengers will be entered on the permit.

Members of the Forest Service, representatives of the U.S. Geological Survey, Bureau of Mines, Department of Justice, Public Health Service, and other Government agencies whose activities are related to the objects and purposes of the National Park Service are eligible for complimentary permits on the conditions above stated, also the State Officials of Montana, Wyoming and Idaho, and law enforcement officials of the counties adjoining the park will be eligible for complimentary permits subject to the conditions noted in paragraph three.

inquiries should be made for the total number of fish caught in the park and the date of exit stamped on the reverse side of the permit.

MISCELLANEOUS TRAVEL

Miscellaneous travel will consist of hikers, passengers on bicycles, on horseback and horse-drawn vehicles. Also Cooke City stage travel should be included in miscellaneous travel.

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In handling motorcycle travel, dogs, guns and fish will be included with those in private automobiles and motorcycles. First entry, re-entry, and exit will be handled the same as automobile travel and the duplicate permits included with automobile permits and sent to the office daily.

COMPLIMENTARY PERMITS

Duplicates of complimentary permits are to be included with paid automobile permits and sent to the office. The auditor's coupon for complimentary permits should be included with the mail house for automobile permits.

Quoting circular No. 2 from the office of the superintendent governing the issue of complimentary permits:

"All United States Senators, Congressmen, and Governors of States when entering the park in conveyances requiring the issuance of a permit will, upon being identified, be issued a complimentary permit without inquiry as to the purpose of their visit.

Except as above noted complimentary permits will be issued only upon request and upon the declaration that the applicant is traveling in an official capacity on official business.

Full data as to name, address, official position, make of car, state, license number, and number of passengers will be entered on the permit.

Members of the Forest Service, representatives of the U.S. Geological Survey, Bureau of Mines, Department of Justice, Public Health Service, and other Government agencies whose activities are substantially the objects and purposes of the National Park Service are eligible for complimentary permits on the conditions above stated, also the State Officials of Montana, Wyoming and Idaho, and law enforcement officials of the counties adjoining the park will be eligible for complimentary permits subject to the conditions noted in paragraph three.

Complimentary permits will not be issued to officers of the Army or Navy or State Government Officials except as above indicated.

Applicants for Complimentary Permits may be sufficiently identified by letters of introduction, business letterheads, business cards, lodge receipts, railroad passes, or any official or unofficial paper that will indicate identity.

When in doubt as to whether or not an applicant is entitled to a permit under the conditions noted herein the Chief Ranger's office should be consulted. The Superintendent will not concern himself with Complimentary Permits except when brought to his attention through the Chief Ranger's Office."

SPECIAL TRANSPORTATION PERMITS

The handling of special tour permits will be governed by the following office order:

Quoting Washington Office Order No. 143, dated April 7, 1928:

"Considerable time was given at the last superintendent's conference to a discussion of the problems affecting the entry of bus and motor coach tours into the national parks. The former may be divided, first, into such tours from regular points to nearby parks with such parks as definite objectives, and thereby probably in competition with our own established transportation operations, and secondly, such tours from distant points that would not be considered in competition with our own established transportation operations and where, because of such distance, the parks would not be the main objectives but merely scenic incidents in a general tour. For the past year or so the Service has been studying the development of such special tour business and has decided that buses and motor coaches falling under the second classification should be for the present, and without prejudice to future action, admitted under payment of certain road license fees.

One development of the touring industry has been the desire of schools, colleges and other institutions of learning to arrange for tours through one or more of the national parks as part of their educational work, and offering the trip to their students, members of the faculty and teaching corps. In order to stimulate as much as possible this way of learning about the national parks and monuments, the Service has in all cases where it has been proven that a responsible school, college, or other institution of learning has developed such tours and placed them in charge of responsible representatives of such institutions to exact only a nominal fee for entry into the parks, but in all other cases where the tour was a purely commercial one, using the park roads for profit, a reasonable fee be exacted for the use of the roads.

Complimentary permits will not be issued to officers of the Army or Navy or State Government Officials except as above indicated.

Applicants for Complimentary Permits may be sufficiently identified by letters of introduction, business letterheads, business cards, lodge receipts, railroad passes, or any official or unofficial paper that will indicate identity.

When in doubt as to whether or not an applicant is entitled to a permit under the conditions noted herein the Chief Ranger's office should be consulted. The Superintendent will not concern himself with Complimentary Permits except when brought to his attention through the Chief Ranger's Office."

SPECIAL TOUR PERMITS

The handling of special tour permits will be governed by the following office order:

Sporting Washington Office Order No. 163, dated April 7, 1938:

"Considerable time was given at the last superintendent's conference to a discussion of the problems affecting the entry of bus and motor coach tours into the national parks. The Owner may be divided, first, into such tours from regular points to nearby parks with such parks as definite objectives, and thereby probably in competition with our own established transportation operations, and secondly, such tours from distant points that would not be considered in competition with our own established transportation operations and where, because of such distance, the parks would not be the main objectives but merely secondary incidents in a general tour. For the past year or so the Service has been studying the development of such special tour business and has decided that buses and motor coaches falling under the second classification should be for the present, and without prejudice to future action, admitted under payment of certain road license fees.

The development of the touring industry has been the desire of schools, colleges and other institutions of learning to arrange for tours through one or more of the national parks as part of their educational work, and offering the trip to their students, members of the faculty and teaching corps. In order to stimulate as much as possible this way of learning about the national parks and monuments, the Service has in all cases where it has been proven that a responsible school, college, or other institution of learning has developed such tours and planned them in charge of responsible representatives of such institutions to erect only a nominal fee for entry into the parks, but in all other cases where the tour was a purely commercial one, using the park roads for profit, a reasonable fee be exacted for the use of the roads.

THEREFORE, for all such tours, which in the opinion of the superintendent do not directly compete with the established transportation service in and into the park, superintendents may issue appropriate permits upon the arrival of such tours at park entrances, the following special permit fees to be charged in addition to the regular park automobile entrance fee in each case, and without prejudice to future action on the part of the Service:

Education tours from schools and other institutions of learning not primarily operated for profit - $1.00 per car per tour.

Commercial tours, operated for profit and whether educational in character or not - $1.00 per car per tour.

Until further notice and until special forms have been devised and approved, the regular transportation permit Form No. 10-113 shall be used in such cases, and shall be issued in quadruplicate, one original signed copy to be furnished the permittee; one original signed copy to be forwarded to the Comptroller General; one copy to be transmitted to the Washington Office; and one copy to be retained for park files. Permits will be issued to cover a single trip through the park only, and shall be indorsed upon entrance by the checking-in ranger with date of arrival at the park, and shall be surrendered by the permittee upon leaving the park, if practicable. Care must be taken to prevent the use of the same permit a second time.

The limitations as to size, weight, passenger-carrying capacity, etc., of motor buses, or coaches operating on such a tour over the roads in the national parks shall be those prescribed for the regular operations by park operators.

In cases of cars operated on these tours arriving at the park without prior notice of the limitations, the superintendent shall have authority to waive said limitations provided he shall first satisfy himself that the car can be safely operated over the park roads."

Quoting supplement No. 1 to Office Order No. 143, dated February 12,1929:

"The provisions of Office Order No. 143 dated April 7, 1928, with reference to the issuance of special transportation permits under the conditions therein stated for the admission of bus and motor coach tours into the national parks, contemplate that such special transportation permit privilege shall extend only to separate tours operated occasionally during the park season and which are termed "special" tours. It is for this reason that under the provisions of the above-

THEREFORE, for all such tours, which in the opinion of the superintendent do not directly compete with the established transportation service in and into the park, superintendents may issue appropriate permits upon the arrival of such tours at park entrances, the following special permit fees to be charged in addition to the regular park automobile entrance fee in such case, and without prejudice to future action on the part of the service:

Education tours from schools and other institutions of learning not primarily operated for profit - $1.00 per car per tour.

Commercial tours, operated for profit and whether educational in character or not - $1.00 per car per tour.

Until further notice and until special forms have been devised and approved, the regular transportation permit Form No. 10-115 shall be used in such cases, and shall be issued in quadruplicate, one original signed copy to be furnished the permittee; one original signed copy to be forwarded to the Comptroller General; one copy to be transmitted to the Washington Office; and one copy to be retained for park files. Permits will be issued to cover a single trip through the park only, and shall be indorsed upon entrance by the checking-in ranger with date of arrival at the park, and shall be surrendered by the permittee upon leaving the park, if practicable. Care must be taken to prevent the use of the same permit a second time.

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In cases of cars operated on these tours arriving at the park without prior notice of the limitations, the superintendent shall have authority to waive said limitations provided he shall first satisfy himself that the car can be safely operated over the park roads."

Quoting Supplement No. 1 to Office Order No. 143, dated February 13, 1939:

"The provisions of Office Order No. 143 dated April 7, 1938, with reference to the issuance of special transportation permits under the conditions therein stated for the admission of bus and motor coach tours into the national parks, contemplate that such special transportation permits privilege shall extend only to separate tours operated occasionally during the park season and which are termed "special" tours. It is for this reason that under the provisions of the above-

mentioned order separate permits for each trip are required to be taken out by the operator at each park in order that this form be under the control of the Service. At no time was it contemplated that regular tour service operated into any particular park, or parks, on fixed schedule during the entire park season would be authorized under the provisions of Office Order No. 143.

THEREFORE, in order to clarify the provisions of the above-mentioned Service Office Order it is hereby directed that the issuance of special tour transportation permits thereunder shall be limited in all cases do not more than five permits to any one operator during the same season for any one park or group of parks; also, that, under such permits a total of not more than five cars during any one season shall be authorized to be operated by any one operator on special tours of the character described in Office Order Nol 143 and under the provisions thereof."

Quoting supplement No. 2 to Office Order No. 143 dated April 10, 1929:

"Recent inquiries received from the field indicate that it is not clear to all as to whether the provisions of Service Order No. 143, dated April 7, 1928, as supplemented February 12, 1929, governing the issuance of special transportation permits for occasionally operated scenic bus and motor coach tours, are generally applicable to all the national parks or just those where automobile license fees are charged for the use of park roads.

THEREFORE, in order to further clarify the provisions of this order and supplement, it is hereby directed that the provisions thereof shall apply only in the following national parks; Yellowstone, Yosemite, Sequoia, General Grant, Mount Rainier, Crater Lake, Mesa Verde, Glacier, Rocky Mountain, Grand Canyon, Zion, Bryce Canyon.

In all other national parks, and in the national monuments, such tours shall be admitted without charge and without requiring the taking out of a permit when in the opinion of the officer in charge the operation is not in competition with established and authorized transportation service at the particular park or monument. Local tours not coming within the definition of "general scenic tours" but which have a particular national park or national monument as sole objective will not be admitted to any national park or national monument where established and authorized transportation service is maintained."

Quoting from a letter from the Director dated January 22, 1930:

"Referring to Acting Superintendent Joffe's letter of January 15, in regard to our letter of December 18, to Hon. Fred C. Jonson, House of Representatives, relative to a proposed outing trip of a troop of boy scouts into Yellowstone National Park, it is not the purpose of Service Order 143 and supplements to require the taking out of any special permit in the case of machines carrying boy scouts, girl

mentioned order separate permits for each trip are required to be taken out by the operator at each park in order that this form be under the control of the Service. At no time was it contemplated that regular tour service operated into any particular park, or parks, as fixed schedule during the entire park season would be authorized under the provisions of Office Order No. 143.

THEREFORE, in order to clarify the provisions of the above-mentioned Service Office Order it is hereby directed that the issuance of special tour transportation permits thereunder shall be limited in all cases to not more than five permits to any one operator during the same season for any one park or group of parks; also, that, under such permits a total of not more than five cars during any one season shall be authorized to be operated by any one operator on special tours of the character described in Office Order No. 143 and under the provisions thereof."

Quoting supplement No. 7 to Office Order No. 143 dated April 18, 1929

"Recent inquiries received from the field indicate that it is not clear to all as to whether the provisions of Service Order No. 143, dated April 7, 1929, as supplemented February 15, 1929, governing the issuance of special transportation permits for occasionally operated scenic bus and color coach tours, are generally applicable to all the national parks or just those where automobile licenses fees are charged for the use of park roads.

THEREFORE, in order to further clarify the provisions of this order and supplement, it is hereby directed that the provisions thereof shall apply only in the following national parks: Yellowstone, Lassen, Sequoia, General Grant, Mount Rainier, Crater Lake, Mesa Verde, Glacier, Rocky Mountain, Grand Canyon, Zion, Bryce Canyon.

In all other national parks, and in the national monuments, such tours shall be admitted without charge and without requiring the taking out of a permit when in the opinion of the officer in charge the operation is not in competition with established and authorized transportation service of the particular park or monument. Local tours not coming within the definition of "general scenic tours" but which have a particular national park or national monument as sole objective will not be admitted to any national park or national monument where established and authorized transportation service is maintained."

Quoting from a letter from the Director dated January 22, 1929:

"Referring to Acting Superintendent Loffa's letter of January 18, in regard to our letter of December 18, to Hon. Fred W. Johnson, Board of Representatives, relative to a proposed cutting trip of a troop of boy scouts into Yellowstone National Park, it is not the purpose of Service Order 143 and supplements to require the taking out of any special permit in the case of machines carrying boy scouts, girl

scouts, orphanage groups, etc., the facilities for which in most instances are furnished free of charge by public-spirited citizens of organizations and these trips should be regarded as exceptions to the policies laid down for outside tours. It is difficult to lay down any general rule with respect to trips of this kind, but it is believed the superintendents will have no difficulty in recognizing those cases which come within this category and for which no permits should be required other than the usual park license fee."

GRAND TETON PARK TRAVEL

The travel to and from Grand Teton National Park will be checked at the South Entrance of Yellowstone National Park. It is necessary to prepare a weekly Teton travel report for the Washington office. Teton travel shall be checked in the following manner:

All cars traveling through the South Entrance, whether north or south bound shall be asked if they have visited or plan to visit the Grand Teton National Park, and the records shall be kept in the following manner:

Records are to be kept of both cars and passengers. Travel from Yellowstone Park to Teton Park and return; travel from Yellowstone Park through Teton Park and travel from Teton Park to Yellowstone Park. This information shall be kept and a weekly report prepared in triplicate, one copy of whichshall be mailed to Superintendent Sam T. Woodring of Teton National Park, one copy kept at the checking station and one copy mailed to the Chief Ranger's office.

COOKE CITY TRAVEL

All Cooke City travel shall not be included in the annual travel reports, but only persons who enter the park through Cooke City will be included in this report. However, a careful check shall be kept of all travel through the Cooke ranger station so that we may be able to know just what travel is using our Cooke City road. This information will be kept at the ranger station until the close of the season.

BECHLER RIVER TRAVEL

Travel through the Bechler River district shall be checked as usual and and number of fish caught shall be obtained whenever possible. All travel shall be reported for inclusion into the monthly travel reports.

GALLATIN GATEWAY TRAVEL

Travel via the Gallatin Gateway shall be checked one day each week and two Sundays each month so as to arrive at the number of cars and passengers traveling over the Gallatin road. This check shall also show whether cars are north or south bound.

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MOUNTAIN RIVER TRAVEL

Travel through the Barbier Miner district shall be checked as usual and the number of fish caught shall be obtained whenever possible. All travel shall be reported for inclusion into the monthly travel reports.

GALLATIN GATEWAY TRAVEL

Travel via the Gallatin Gateway shall be checked one day each week and two mondays when south so as to arrive at the number of cars and passengers traveling over the Gallatin road. This check shall also show whether cars are north or south bound.

PACK AND SADDLE HORSE OUTFITS

Pack outfits traveling in Yellowstone National Park are required to have a permit from the superintendent before they enter the park. When park rangers come in contact with pack parties they shall inquire for their permit and the party's itinerary. If the party has no permit, the ranger shall secure the names of all people in the party and the itinerary for the balance of the trip in the park and mail or telephone the itinerary to the Chief Ranger's office at once so that an itinerary may be prepared and sent to all rangers who are interested.

It is planned to furnish an itinerary to all rangers for all pack outfits. A pack party which has no permit should not be discommoded in any way but should be advised that a permit is necessary for future trips.

MOUNT WASHBURN TRAVEL

Travel from Canyon to Tower Falls by way of Mt. Washburn and Dunraven Pass will be checked at Dunraven Pass as will travel from Canyon to the top of Mt. Washburn and return and this report shall be telephoned into the Chief Ranger's office every morning.

AUTO CAMP CHECKING

Auto camp checks shall be made daily, either in the morning or evening and records kept by state, make of car, and license number. Cars at the hotels, lodges and housekeeping cabins shall be counted and the totals telephoned in at the same time as the public auto camp report.

It is important to avoid confusion in these reports and cars at lodges and hotels and other points should not be included in public auto camp checks.

George F. Baggley
Chief Ranger

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George T. [illegible]
Chief Ranger

(COPY)
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYOMING

May 20, 1930.

MEMORANDUM FOR PARK RANGERS:

The enclosed requisition book is for your own use and should be kept at your station.

When you desire to draw property from the Government storehouse please fill out and sign the requisition for same. It should be made out in triplicate and each item listed separately, signed, and sent to this office. We will OK it and send it to the storehouse and they will deliver the property to you.

Please do not confuse property with expendable material. Property may be defined as an item or thing which does not lose its form immediately on being put to its intended use. There are, however, a few items such as flags that are expendable yet come under the property definition.

No account number is necessary on a property requisition. The requisitions should be clearly dated and signed before sending them to the office.

Sincerely yours,

George F. Baggley
Chief Ranger

DIETER
BINDS